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Flavour and Fragrance Journal is a multidisciplinary journal publishing research on all aspects of flavours, fragrances, and related materials from academia and industry. With an interdisciplinary scope, the journal covers sensory science, analytical techniques, chemical and biotechnological synthesis methods, formulation, microbiology, chemosensory perception, and legislation. Our high scientific standards and international character are ensured by a strict refereeing system and an editorial team representing the multidisciplinary expertise of our field.

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The cover image is based on the RESEARCH ARTICLE Characterization of key aroma compounds in Laobaigan Chinese Baijiu by GC×GC-TOF/MS and means of molecular sensory science by Qian Fan et al., https://doi.org/10.1002/ffj.3533. Cover image © Hebei Hengshui Laobaigan Co. Ltd. Images

Articles

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ORIGINAL ARTICLE | Open Access

Evaluation of Performance of a Polymer-Based Fixative (FIXSCENT) on the Controlled Release Kinetics and Longevity of Top and Heart Notes of Alcoholic Perfume

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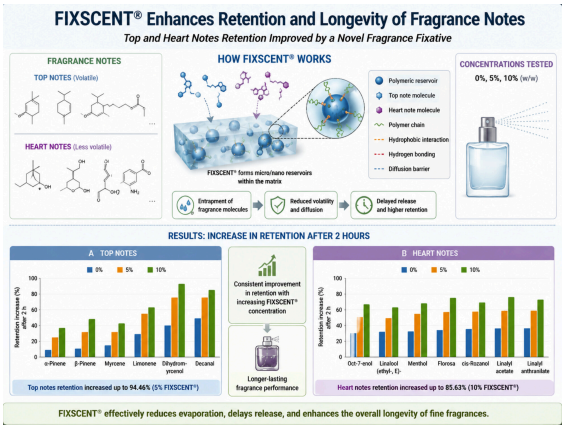
FIXSCENT® Enhances Retention and Longevity of Fragrance Notes
Top and Heart Notes Retention Improved by a Novel Fragrance Fixative
FRAGRANCE NOTES
TOP NOTES (Volatile)
HEART NOTES (Less volatile)
HOW FIXSCENT® WORKS
Polymeric reservoir
Top note molecule
Heart note molecule
Polymer chain
Hydrophobic interaction
Hydrogen bonding
Diffusion barrier
FIXSCENT® forms micro/nano reservoirs within the matrix
Entrapment of fragrance molecules
Reduced volatility and diffusion
Delayed release and higher retention
CONCENTRATIONS TESTED
0%, 5%, 10% (w/w)
RESULTS: INCREASE IN RETENTION AFTER 2 HOURS
A TOP NOTES
B HEART NOTES
Consistent improvement in retention with increasing FIXSCENT® concentration
Longer-lasting fragrance performance
Top notes retention increased up to 94.46% (5% FIXSCENT®)
Heart notes retention increased up to 85.63% (10% FIXSCENT®)
FIXSCENT® effectively reduces evaporation, delays release, and enhances the overall longevity of fine fragrances.

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ORIGINAL ARTICLE | **Open Access**

Phytochemical Composition and Bioactivity of *Elsholtzia strobilifera* (Benth.) Benth Essential Oil With Spectral Characterisation of Pinocarvone Using NMR Techniques

Priyanka Bhatt, Pooja Bargali, Gunja Sah, G. C. Shah, Ravendra Kumar, Stefania Garzoli, Maneesha Pathak, Archana N. Sah

First Published: 11 July 2026

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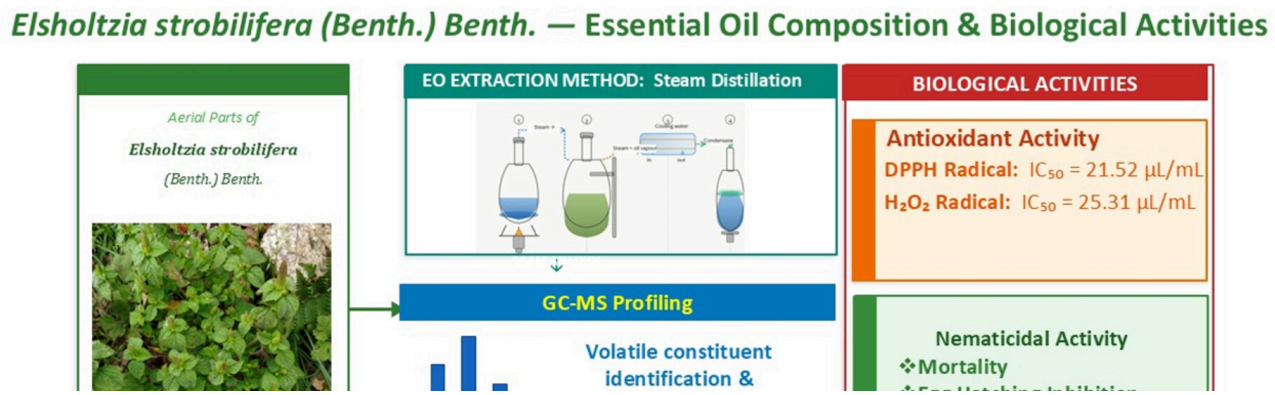

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RESEARCH ARTICLE | Full Access

HS-SPME-GC-MS Combined With Multivariate Analysis of the Effects of Different Solvents and Processes on the Characteristic Aroma Components of Tobacco Leaves

Liang He, Tao Zhang, Haocheng Cai, Fengmei Zhang, Ruilin Hu, Bin Guan, Qingna Duan, A. Yinchun, Yushu Gong, Chao Li

First Published: 5 July 2026

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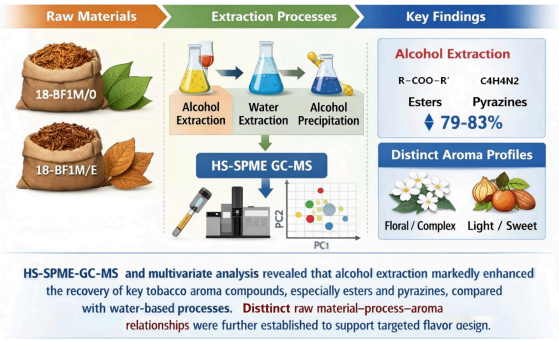

HS-SPME-GC-MS and multivariate analysis revealed that alcohol extraction markedly enhanced the recovery of key tobacco aroma compounds, especially esters and pyrazines, compared with water-based processes. Distinct raw material–process–aroma relationships were further established to support targeted flavour design.

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RESEARCH ARTICLE | Open Access

Fungitoxic Potential of Secondary Eucalyptus Metabolites in the Inhibition of *Neopestalotiopsis clavispora* Isolated From Macadamia

Dalton Longue Júnior, Catia dos Santos Libarino, Quelmo Silva de Novaes, Patrícia Baier Krepsky, Gabriela Nunes Santana, Bruno Oliveira Moreira, Laura da Silva Rocha... See all authors

First Published: 2 July 2026

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RESEARCH ARTICLE | Full Access

Temporal and Spatial Pattern Analysis of Brain Electrical Responses Induced by Four Representative Essential Oil Active Components

Jing wang, Chao-feng Yang, Yi-xuan He, Jian-yong Tong, Yu-jie He, Yong-quan Lu

First Published: 1 July 2026

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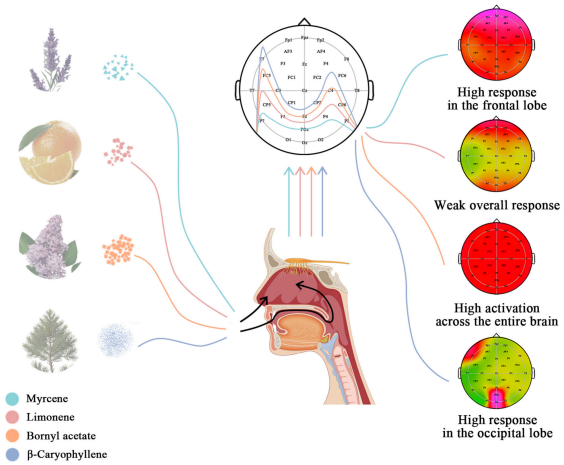

Using 32-channel electroencephalography, a study found that four essential oil components (myrcene, limonene, bornyl acetate and β-caryophyllene) induce sedative and anxiolytic brainwave patterns (alpha dominance, elevated alpha/beta ratios) but each has unique spatiotemporal activation patterns, offering objective physiological evidence for personalized aromatic interventions.

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